

# Memorandum

**Date :** October 10, 2001  
**Telephone:** (916) 653-1227  
**File:**

**To:** Commissioner William J. Keese  
Commissioner Michal C. Moore  
Commissioner Robert A. Laurie  
Commissioner Robert Pernell  
Commissioner Art Rosenfeld

**From:** California Energy Commission -  
1516 Ninth Street  
Sacramento, CA 95814-5512

**Subject: DATA ADEQUACY 2 FOR THE ROSEVILLE ENEREGY FACILITY  
(01-AFC-14)**

Staff has completed its data adequacy review of the AFC Supplemental filings for the Roseville Energy Facility submitted on September 17, 19, and October 1, 2001. Staff has determined that the AFC and its supplements contain all of the information required by Cal. Code of Regs., tit. 20, § 1704, Appendix B, for the 12-month AFC.

Attachment A provides an overview of each technical discipline. Attachment B includes staff's detailed data adequacy worksheets which describe staff's findings for each information requirement.

At the Energy Commission's Business Meeting on October 17, 2001, I will be recommending that the Energy Commission accept the AFC and its supplements as data adequate.

If you have any questions, please call Lance Shaw, staff's Project Manager, at (916) 653-1227.

Steve Larson  
Executive Director

Attachments

**ATTACHMENT A  
OVERVIEW OF ENERGY COMMISSION STAFF'S  
DATA ADEQUACY DETERMINATION  
Roseville Energy Facility (01-AFC-14)**

<b>TECHNICAL AREA</b>	<b>ATTACHMENT B PAGE NO.</b>	<b>ADEQUATE?</b>
<b>AIR QUALITY</b>	<b>4</b>	<b>YES</b>
<b>BIOLOGICAL RESOURCES</b>	<b>9</b>	<b>YES</b>
<b>CULTURAL RESOURCES</b>	<b>13</b>	<b>YES</b>
<b>NOISE</b>	<b>16</b>	<b>YES</b>
<b>PROJECT OVERVIEW</b>	<b>19</b>	<b>YES</b>
<b>SOCIOECONOMICS</b>	<b>22</b>	<b>YES</b>
<b>SOILS</b>	<b>26</b>	<b>YES</b>
<b>TRAFFIC AND TRANSPORTATION</b>	<b>28</b>	<b>YES</b>
<b>VISUAL RESOURCES</b>	<b>31</b>	<b>YES</b>
<b>WATER RESOURCES</b>	<b>34</b>	<b>YES</b>
<b>WORKER SAFETY</b>	<b>37</b>	<b>YES</b>
<b>TRANSMISSION SYSTEM ENG.</b>	<b>39</b>	<b>YES</b>

**ATTACHMENT B**

**ENERGY COMMISSION STAFF'S  
Data Adequacy 2 Determinations**

**Roseville Energy Facility  
01-AFC-14**

October 12, 2001

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 01 Date 8/24/049/20/01

Technical Area: Air Quality

Project: Roseville Energy Facility

Technical Staff: Birdsall/Walters

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Matt Layton

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§5.2.1.2 (p. 5.2-4) §5.2.2.4 (pp. 5.2-14 through 18) §5.2.3.1 (p. 5.2-20) Appendix I.3, Table 5.2-28 §5.2.5.2 (pp 5.2-56 through 58) §5.2.5.3 (pp. 5.2-59 through 60) Appendix I.8, p. 5.2-53	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	<del>Not Available as of 8/24.</del> <u>Application received at District and deemed complete in letter from District 9/13.</u> <u>Attachment 1 of 9/17 Response to Data Adequacy.</u>	<del>No</del> <u>Yes</u>	<del>The District will file the completeness letter within 30 days of receiving the PDOC/ATC application and related application fees.</del>
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	p.3.4-1 Table 5.2-8 (p. 5.2-20) Table 5.2-25 (p. 5.2-40) Table 5.2-11 (p. 5.2-22)	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	§5.2.1.1 (p. 5.2-3) §5.2.1.5 (pp. 5.2-5 and 6) Appendix I.2	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	§3.4.5 (p. 3.4-11) Table 3.4.8-1 (p. 3.4-16) Table 3.4.8.2 (p. 3.4-17) §5.2.3.2 (p. 5.2-23)	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all secondary emission sources.	Table 5.2-24 (p. 5.2-39) Table 5.2-29 (p. 5.2-43) Table 5.2-44 (p. 5.2-59) Appendix I.4 and I.6 (Note: Final Turbine Vendor has not been selected)	Yes	

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (F)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	§3.9.2.1.1 (p. 3.9-2) Tables 5.2-9 and 10 (pp. 5.2-21 through 23) Table 5.2-24 (p. 5.2-39) Appendix I.4 and I.6 (Note: Final Turbine Vendor has not been selected)	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Tables 5.2-3 through 7 (pp. 5.2-14 through 18)	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Electronic Filing on CD	Yes	
Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995), which is incorporated by reference in its entirety.)	Not Applicable	Yes	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix I.1 Electronic Filing on CD	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:			

Adequacy Issue: Adequate ☒ Inadequate ☒

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Technical Staff: Birdsall/Walters

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Matt Layton

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM <sub>10</sub> ) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO <sub>x</sub> ), sulfur dioxide (SO <sub>2</sub> ), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM <sub>10</sub> )] from construction-related equipment;	§5.2.3.1 (p. 5.2.20) Appendix I.3	Yes	
Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct inert criteria pollutant (NO <sub>x</sub> , SO <sub>2</sub> , CO and PM <sub>10</sub> ) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	§5.2.3.3.2 §5.2.3.3.3 (pp. 5.2-26 through 42) (Tables 5.2-12 through 26) Appendix I.6 Electronic Filing on CD	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	p. 5.2-53 Appendix I.8	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:			
Appendix B (g) (8) (J) (i)	The quantity of offsets needed;	§5.2.5.1 (p.5.2-55) §5.2.5.3.2 (p 5.2-59)	Yes	

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Project Manager: Lance Shaw

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions; and	<del>Not provided with the AFC p. 5.2-55</del> Confidential package of offsets under agreement or negotiation received at CEC 8/28.	<del>No</del> Yes	<del>Potential offset sources, including location, and quantity of emission reductions.</del> Applicant intends to file this under confidential cover, as discussed with Applicant's attorney, Allan Thompson on 8/23.
Appendix B (g) (8) (J) (iii)	Method of emission reduction.	p. 5.2-59 through 60, and Table 5.2-45. Confidential package of offsets under agreement or negotiation received at CEC 8/28.	<del>No</del> Yes	<del>Method of emission reduction for offset sources.</del>
Appendix B (g) (8) (K)	A topographic map containing contour and elevation data, at a scale of 1:24,000, showing the area within 6 miles of the power plant site.	Map 3.2-1 Figure 5.16-1	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 7.1-1 (pp. 7.1-6 through 11)	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 7.1-1 (pp. 7.1-6 through 11)	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	§5.2.4 (p. 5.2-55) §7.5.2 (pp. 7.2-1 through 9)	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 7.1-2 (pp. 7.1-38 through 39)	Yes	

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Technical Staff: Birdsall/Walters

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Technical Senior: Matt Layton

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	<del>Not provided</del> <u>p. 2 of Attachment 2 of 9/17 Response to Data Adequacy.</u>	<del>No</del> <u>Yes</u>	<del>The steps taken to obtain necessary permits and a clear schedule of when the permits will be obtained.</del>



Adequacy Issue: Adequate ☒ Inadequate ☐

Technical Area: **Biological Resources**

Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Project: Roseville Energy Facility

Docket: 01-AFC-14

Revision No. 01 Date 9/19/01

Technical Staff: Stuart Itoga, Natasha Nelson

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Existing site conditions: Section 5.6, subsections 5.6.1-5.6.3, pages 5.6-1-5.6-48. Impacts: Sections 5.6.2-5.6.3, pages 5.6-36-5.6-47. Mitigation: Sections 5.6.4-5.6.5, pages 5.6-48-5.6-53. Effectiveness of mitigation: Section 5.6.4, pages 5.6-50-5.6-52.	Yes  Yes  Yes  Yes	
Appendix B (g) (13) (A)	A regional overview and discussion of biological resources, with particular attention to sensitive biological resources near the project, and a map at a scale of 1:100,000 (or some other suitable scale) showing their location in relation to the project.	<del>Discussion Section 5.6.1.4, pages 5.6-22-5.6-36.</del> Maps: Response to CEC Data Adequacy Comments dated September 10, 2001. Attachment 3, Figure Bio-1.	Yes Yes <del>No</del> Yes	<del>Provide a map at 1:100,000 which shows with either polygons or points the sensitive areas and species in the region.</del>
Appendix B (g) (13) (B)	A discussion and detailed maps at a scale of 1:6,000, of the biological resources at the site of the proposed project and related facilities, and in areas adjacent to them, out to a mile from the site and 1000 feet from the outer edge of linear facility corridors. Include a list of the species actually observed and those with a potential to occur. The discussion and maps shall address the distribution of community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and the presence of sensitive biological resources.	Discussion: Section 5.6.1.1, pages 5.6-1-5.6-36. Maps: Figures 5.6 1A-1B, 5.6-2.1-5.6-2.12. List (potential): Table 5.6-1, pages 5.6-3-5.6-8. List (observed): Table 5.6.1, pages 5.6-3-5.6-8; Table 5.6-3.	Yes  Yes  Yes  Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐

Technical Area: **Biological Resources**

Project Manager: Lance Shaw

# **DATA ADEQUACY WORKSHEET**

Project: Roseville Energy Facility

Docket: 01-AFC-14

Revision No. 01 Date 9/19/01

Technical Staff: Stuart Itoga, Natasha Nelson

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (C)	A description of all studies and surveys used to provide biological information about the project site, including seasonal surveys and copies of the California Department of Fish and Game's Natural Diversity Data Base Survey Forms, "California Native Species Field Survey Forms", and "California Natural Community Field Survey Forms", completed by the applicant. Include the dates and duration of the studies, methods used to complete the studies, and the names and qualifications of individuals conducting the studies.	<del>Studies/Surveys: Section 5.6.1.1, pages 5.6-2-5.6-36.</del> <del>Survey forms: Appendix N.</del> <del>Dates/Methods: Appendix N, pages N-2-N-13.</del> <del>Names of individuals...: Table 5.6-2, page 5.6-9.</del> Qualifications: Response to <u>CEC Data Adequacy Comments, dated September 10, 2001.</u> <u>Supplemental filing, page BIO-2.</u>	Yes Yes  Yes <del>No</del> <u>Yes</u>	<del>Submit qualifications of individuals who conducted studies.</del>
Appendix B (g) (13) (D)	A discussion of all permanent and temporary impacts to biological resources from site preparation, construction activities, and plant operation. Discussion of impacts must consider impacts from cooling tower drift, and from the use and discharge of water during construction and operation. For facilities which use once-through cooling or take or discharge water directly from or to natural sources, discuss impacts resulting from entrainment, impingement, thermal discharge, effluent chemicals, type of pump (if applicable), temperature, volume and rate of flow at intake and discharge location, and plume configuration in receiving water.	Impacts: Section 5.6.2, pages 5.6-36-5.6-48. Cooling tower drift: Section 5.6.2.1, page 5.6-39. Storm water discharge: Section 5.6.2, subsection 5.6.2.1, page 5.6-41.	Yes  Yes  Yes	
Appendix B (g) (13) (E)	A discussion of the following:			
Appendix B (g) (13) (E) (i)	All measures proposed to avoid and/or reduce any adverse impacts;	Section 5.6.2.2, page 5.6-45, Sections 5.6.3-5.6.4, pages 5.6-47-5.6-52.	Yes	
Appendix B (g) (13) (E) (ii)	All measures proposed to mitigate any adverse impacts, including any proposals for off-site mitigation; and	Section 5.6.4, pages 5.6-48-5.6-52.	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

Technical Area: **Biological Resources**

Project Manager: Lance Shaw

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Project: Roseville Energy Facility

Docket: 01-AFC-14

Revision No. 01 Date 9/19/01

Technical Staff: Stuart Itoga, Natasha Nelson

Technical Senior: Jim Brownell

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (E) (iii)	Any educational programs proposed to enhance employee awareness in order to protect biological resources.	Section 5.6.4, Bio 2. Page 5.6-49.	Yes	
Appendix B (g) (13) (F)	A discussion of compliance and monitoring programs proposed to ensure the effectiveness of mitigation measures incorporated into the project.	Section 5.6.4, Bio3, Bio 8, pages 5.6-49-5.6-50.	Yes	
Appendix B (g) (13) (G)	A discussion of native fish and wildlife species of commercial and/or recreational value that could be impacted by the project.	Section 5.6.1.5, page 5.6-36.	Yes	
Appendix B (g) (13) (H)	For purposes of this section, sensitive biological resources are one of the following:			
Appendix B (g) (13) (H) (i)	Species listed under state or federal Endangered Species Acts;	Section 5.6.1.4, pages 5.6-22-5.6-32.	Yes	
Appendix B (g) (13) (H) (ii)	Resources defined in sections 1702 (q) and (v) of Title 20 of the California Code of Regulations; and	Areas: Section 5.6.1.3, pages 5.6-19-5.6-21, Section 5.6.1.6, page 5.6-36. Species: 5.6.1.4, pages 5.6-22-5.6-36	Yes Yes	
Appendix B (g) (13) (H) (iii)	Species or habitats identified by legislative acts as requiring protection.	Table 5.6-1, pages 5.6-3-5.6-8, 5.6-19-5.6-21.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 7.1, Table 7.1-1, pages 7.1-18-7.1-23.	Yes	

Adequacy Issue: Adequate **X** Inadequate **X**

Technical Area: **Biological Resources**

Project Manager: Lance Shaw

# DATA ADEQUACY WORKSHEET

Project: Roseville Energy Facility

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Revision No. 01 Date 9/19/01

Technical Staff: Stuart Itoga, Natasha Nelson

Technical Senior: Jim Brownell

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 7.1, Table 7.1-1, pages 7.1-18-7.1-23.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 7.5.6, pages 7.5-20-7.5-26	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 7.1, Table 7.1-2, pages 7.1-38-7.1-40.	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Permits/Schedule <u>Response to CEC Data Adequacy Comments, dated September 10, 2001. Attachment 2, pages 4-5.</u>	<del>No</del> <u>Yes</u>	<del>Provide a list of required permits and any steps taken to obtain them.</del>

Adequacy Issue: Adequate ☒ Inadequate ☒  
 Technical Area: **Cultural Resources**  
 Project Manager: **Lance Shaw**

## DATA ADEQUACY WORKSHEET

Project: **Roseville Energy Facility**  
 Docket: **01-AFC-14**

Revision No. **1** Date **8/28/01**  
 Technical Staff: **Gary Reinoehl**  
 Technical Senior: **Dale Edwards**

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 5.7.1.3 – 5.7.1.5 Section 5.7.2 Section 5.7.3	Yes	
Appendix B (g) (2) (A)	A brief summary of the ethnology, prehistory, and history of the region in which the project site and related facilities are located and maps at a scale of 1:24,000, indicating areas of ethnographic occupation. The region may vary depending on the extent of the territory occupied or used by prehistoric cultures indigenous to the area in which the project is located.	Sections 5.7.1.6 – 5.7.1.8 Map 5.7-1 Figure 5.7-1	Yes	
Appendix B (g) (2) (B)	A description of all literature searches and field surveys used to provide information about known cultural resources in the project vicinity. If survey records of the area potentially physically affected by the project are not available, and the area has the potential for containing significant cultural resources, the applicant shall submit a new or revised survey for any portion of the area lacking comprehensive survey data. A discussion of the dates of the surveys, methods used in completing the surveys, and the identification and qualification of the individuals conducting the surveys shall be included.	Section 5.7.1.10 Section 5.7.1.11 Tables 5.7-1 and 5.7-2 Section 5.7.1.12 and 5.7.1.13 Table 5.7-3 Appendix J (Confidential)	Yes	

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## DATA ADEQUACY WORKSHEET

Revision No. 1 Date 8/28/01

Technical Area: **Cultural Resources**

Project: Roseville Energy Facility

Technical Staff: Gary Reinoehl

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	A discussion of the sensitivity of the project area described in subsection (g)(2)(A) and the presence and significance of any known archeological sites and other cultural resources that may be affected by the project. Information on the specific location of archeological resources shall be included in a separate appendix to the application and submitted to the Commission under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Section 5.7.1.12.2 Appendix J (Confidential)	Yes	
Appendix B (g) (2) (D)	A summary of contacts and communications with, and responses from, Native American representatives who may have an interest in heritage lands and/or resources potentially affected by the proposed project.	Section 5.7.1.9 Appendix J (Confidential)	Yes	
Appendix B (g) (2) (E)	In the discussion on mitigation and monitoring prepared pursuant to subsection (g)(1), a discussion of any educational programs proposed to enhance awareness of potential impacts to archeological resources by employees and contractors, measures proposed for mitigation of impacts to known cultural resources, and a set of contingency measures for mitigation of potential impacts to previously unknown cultural resources.	Section 5.7.3	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 5.7.4 and 7.5.8 Table 7.1-1	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

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Project: Roseville Energy Facility

Technical Staff: Gary Reinoehl

Project Manager: Lance Shaw

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Technical Senior: Dale Edwards

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Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables 7.1-1 and 7.1-2	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 7.5.8	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 7.1-2	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	<u>Response to Data Adequacy Comments, Attachment 2</u>	<del>No</del> <u>Yes</u>	<del>Please provide a schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.</del>

Adequacy Issue: Adequate ☒ Inadequate ☒  
 Technical Area: **Noise**  
 Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Project: Roseville Energy Facility  
 Docket: \_\_\_\_\_

Revision No. 01 Date 8/28/019/24/01

Technical Staff: Jim Buntin  
 Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC Section 5.12, pp. 5.12-4 to 5.12-15	Yes	
Appendix B (g) (4) (A)	A land use map which identifies residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area impacted by the proposed project is that area where there is a potential increase of 5 dB(A) or more, during either construction or operation, over existing background levels.	AFC Section 5.12, Figures 3.1-5, and 5.12-1, 5.12-5.12,-3 & 5.12-4.	Yes	
Appendix B (g) (4) (B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored for duration at the applicant's discretion during the same 25-hour period. The results of the noise level measurements shall be reported in $L_{eq}$ (equivalent sound or noise level), $L_{dn}$ (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The $L_{10}$ , $L_{50}$ , and $L_{90}$ values (noise levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported.	AFC Section 5.12, pp.5.12-4 – 5.12-7; Appendix M	Yes	
Appendix B (g) (4) (C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	<del>AFC Section 5.12, p. 5.12-8, Supplement pages NOI-1 and Appendices</del>	<del>No</del> <u>Yes</u>	<del>Provide a description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted. Include gas compressors.</del>



Adequacy Issue: Adequate ☒ Inadequate ☒

# DATA ADEQUACY WORKSHEET

Revision No. 01 Date 8/28/019/24/01

Technical Area: Noise

Project: Roseville Energy Facility

Technical Staff: Jim Buntin

Project Manager: Lance Shaw

Docket: \_\_\_\_\_

Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (4) (D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	AFC Section 5.12, pp. 5.12-9 – 5.12-13	Yes	
Appendix B (g) (4) (E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	AFC Section 5.12, pp. 5.12-9 – 5.12-13, <u>Supplement PP. NOI2-3, Appendices.</u>	<del>No</del> <u>Yes</u>	<del>Provide a description of the impact to the workers at the site due to the estimated noise levels.</del>
Appendix B (g) (4) (F)	The audible noise from existing switchyards and overhead transmission lines that would be affected by the project and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	AFC Section 5.12, pp. 5.12-10, 5.12-11.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	AFC Section 7, Table 7.1-1	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	AFC Section 7, Table 7.1-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	AFC Section 5.12, p. 5.12-15.	Yes	

Adequacy Issue: Adequate **X** Inadequate **X**  
Technical Area: **Noise**  
Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Project: Roseville Energy Facility  
Docket: \_\_\_\_\_

Revision No. 01 Date ~~8/28/01~~ 9/24/01  
Technical Staff: Jim Buntin  
Technical Senior: Lynn Alexander

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	AFC Section 7.1	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	AFC Section 5.12, p. 5.12-15.	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 1 Date 27 September, 2001

Technical Area: **Project Overview**

Project: Roseville Energy Facility

Technical Staff: Lance Shaw

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Entire AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Entire AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference	Entire AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Entire AFC	Yes	
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply, water supply, pollution control systems, and other general characteristics.	Entire AFC	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessors parcel numbers.	Section 3.2	Yes	
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Section 3	Yes	
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Sections 3 and 5.13	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 1 Date 27 September, 2001

Technical Area: **Project Overview**

Project: Roseville Energy Facility

Technical Staff: Lance Shaw

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	Appendix Q	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Section 3.8	Yes	
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Section 1	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 1	Yes	
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Entire AFC	Yes	
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Section 3.2 and Section 5.9	Yes	
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities;	<del>Entire AFC</del> Supplement Figure 3.1-1A	<del>No</del> Yes	<del>Please provide plan and elevation drawings as required.</del>
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Entire AFC	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

# DATA ADEQUACY WORKSHEET

Revision No. 1 Date 27 September, 2001

Technical Area: **Project Overview**

Project: Roseville Energy Facility

Technical Staff: Lance Shaw

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Paul Richins

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s).	Entire AFC	Yes	
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Entire AFC	Yes	
Appendix B (c)	In a section entitled, "Demand Conformance" provide a discussion explaining how the proposed project conforms with the requirements of Public Resources Code § 25524 or Public Resources Code § 25540.6(a)(5). If the provisions of Public Resources Code § 25523.5 are applicable, explain how the project conforms with the requirements of this section. Additional data adequacy requirements may be contained in the Electricity Report applicable pursuant to Title 20, California Code of Regulations, § 1720.5.		N/A	Not Applicable
Appendix B (d) (1)	A copy of any study or analysis required by the terms of the Commission's Final Decision on the NOI, and a brief summary of the results of the study or analysis.		N/A	
Appendix B (d) (2)	Updates of any significant information which has changed since the Commission's Final Decision on the NOI.		N/A	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3.10	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 0 Date 9/18/01

Technical Area: Socioeconomics

Project: Roseville Energy Facility

Technical Staff: James Adams

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC Section 5.10 PP. 5.10-1 to 10-19	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:	PP. 5.10-1 to 10-6	Yes	
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	<u>PP. 5.10-1 to 10-6</u>	<u>No Yes</u>	<del>For the list of the applicable local agencies with taxing powers, please provide their most recent and projected revenues.</del>
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	PP. 5.10-3 to 10-6, 10-15 & 16, Tables 5.10-3 & 4 Figure 5.10-2	Yes	
Appendix B (g) (7) (A) (iii)	Existing and projected unemployment rates;	<u>PP. 5.10-2 to 10-4</u>	<u>No Yes</u>	<del>Please provide projected unemployment rates.</del>
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	PP. 5.10-10 to 10-12 Tables 5.10-6 & 7	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing; and	PP. 5.10-3 to 10-6	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

# DATA ADEQUACY WORKSHEET

Revision No. 0  
1 Date 9/18/01

Technical Area: Socioeconomics  
Project Manager: Lance Shaw

Project: Roseville Energy Facility  
Docket: 01-AFC-14

Technical Staff: James Adams  
Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.	PP. 5.10-6 to 10-9, 10-13 & 14, Tables 5.10-8 & 9	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project, including:	<u>PP. 5.10-10 to 12, 10-16</u> <u>Tables 5.10-6 &amp; 7</u>	<del>No</del> <u>Yes</u>	<del>Please provide a discussion of the socioeconomic impacts caused by the operation of the project.</del>
Appendix B (g) (7) (B) (i)	The number of workers to be employed each month by craft during construction and operation;	<u>PP. 5.10-11 &amp; 12</u>	<del>No</del> <u>Yes</u>	<del>Please provide the number of workers to be employed each month by craft during operation;</del>
Appendix B (g) (7) (B) (ii)	An estimate of the number and percentage of workers who will commute daily, commute weekly, or relocate in order to work on the project;	Pg. 5.10-10	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	PP. 5.10-10 to 13	Yes	
Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	<u>Pg. 5.10-10 to 10-12</u>	<del>No</del> <u>Yes</u>	<del>Please provide the potential impact of population increase on housing during the operations phase.</del>

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 0  
1 Date 9/18/01

Technical Area: Socioeconomics  
Project Manager: Lance Shaw

Project: Roseville Energy Facility  
Docket: 01-AFC-14

Technical Staff: James Adams  
Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operation phases;	PP. 5.10-12 to 14	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	<u>PP. 5.10-14</u>	<u>No Yes</u>	<u>Please provide an estimate of applicable school impact fees.</u>
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and an estimate of the total operation payroll;	Pg. 5.10-12	Yes	
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project; and	Pg. 5.10-12	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost of the project of the potential impacts on tax revenues from construction and operation of the project.	PP. 5.10-12 & 6-1	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Pg. 7.1-28 Table 7.1-1	Yes	



Adequacy Issue: Adequate ☒ Inadequate ☒

# DATA ADEQUACY WORKSHEET

Revision No. 0  
1 Date 9/18/01

Technical Area: Socioeconomics  
Project Manager: Lance Shaw

Project: Roseville Energy Facility  
Docket: 01-AFC-14

Technical Staff: James Adams  
Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Pg. 7.1-28 Table 7.1-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pg. 7.1-1	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Pg. 7.1-39 Table 7.1-2	Yes	
Appendix (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/a		

Adequacy Issue: Adequate **X** Inadequate **X**

# DATA ADEQUACY WORKSHEET

Revision No. 0 Date 9/4/01  
1 9/25/01

Technical Area: Soils  
 Project Manager: Lance Shaw

Project: Roseville Energy Facility  
 Docket: \_\_\_\_\_

Technical Staff: Richard Sapudar  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections: 3.3.2.1, 3.5.10, 5.4.1, 5.4.1.1.1, 5.4.1.2, 5.4.3, 5.4.2.1.1	YES	
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Sections: 5.4.1.1, 5.4.1.1.1, Figure 5.4-1	YES	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; and	Table 5.4-2	YES	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system.	Sections: 5.3.1.4.6, 5.3.3.6, 5.4.1.1, 5.4.1.1.1, 5.4.2.1.1	YES	
Appendix B (g) (15) (C)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	Table 3.8-3	YES	
Appendix B (g) (15) (C) (i)	The quantification of accelerated soil loss due to wind and water erosion;	Section: 5.4.2.1	YES	
Appendix B (g) (15) (C) (iii)	The effect of power plant emissions on surrounding soil-vegetation systems.	Section: 5.2.3.4.1, Table 5.2-32	YES	

Adequacy Issue: Adequate **X** Inadequate **X**

# DATA ADEQUACY WORKSHEET

Revision No. 0 Date 9/4/01  
1 9/25/01

Technical Area: Soils  
 Project Manager: Lance Shaw

Project: Roseville Energy Facility  
 Docket: \_\_\_\_\_

Technical Staff: Richard Sapudar  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 7.1-1 Section: 7.5.4	YES	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 7.1-1 Section: 7.5.4.1	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Sections: 5.4.4, 5.4.3 Table 7.1-1	YES	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 7.1-1	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	<del>None</del> <u>9/10/01 Supplement Water-1 Attachment 2</u>	<del>NO</del> Yes	<del>Provide the required schedule for all permits.</del>

Adequacy Issue: Adequate ☒ Inadequate ☒  
 Technical Area: **Traffic and Transportation**  
 Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Project: Roseville Energy Center  
 Docket: 01-AFC-14

Revision No. 0 Date 9/18/01  
 Technical Staff: James Adams  
 Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	AFC Section 5.11 PP. 5.11-1 through 11-25	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	PP. 5.11-1 to 3 Figure 5.11-2, Maps 1 & 2	Yes	
Appendix B (g) (5) (B)	An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines, including light rail, bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Figures 5.11-1 & 2	Yes	
Appendix B (g) (5) (B) (i)	Road classification and design capacity;	PP. 5.11-4 to 7 Tables 5.11-1 through 4	Yes	
Appendix B (g) (5) (B) (ii)	Current daily average and peak traffic counts;	Pg. 5.11-5 Table 5.11-1	Yes	
Appendix B (g) (5) (B) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	PP. 5.11-4 through 7 Tables 5.11-1 through 4	Yes	
Appendix B (g) (5) (B) (iv)	Weight and load limitations;	<del>PP. 5.11-13, 11-21</del> <u>Pg. TR-1 Supplement</u> <u>September-10, 2001</u>	<del>No</del> <u>Yes</u>	<del>For each road potentially impacted by the project, please provide weight and load limitations.</del>
Appendix B (g) (5) (B) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	PP. 5.11-5 & 6	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

# DATA ADEQUACY WORKSHEET

Revision No. 0 Date 9/18/01

Technical Area: **Traffic and Transportation**

Project: Roseville Energy Center

Technical Staff: James Adams

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (B) (vi)	An identification of any road features affecting public safety.	<del>Section 5.11</del> Pg. TR-2 Supplement September 10, 2001	<del>No</del> Yes	<del>Please provide an identification of any road features affecting public safety.</del>
Appendix B (g) (5) (C)	A description of any new, planned, or programmed transportation facilities in the project vicinity, including those necessary for construction and operation of the proposed project. Specify the location of such facilities on topographic maps at a scale of 1:24,000.	PP. 5.11-6, 8 & 9, 11, 17 Figure 5.11-2, Maps 1 & 2	Yes	
Appendix B (g) (5) (D)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified. Include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(C).	PP. 5.11-9 through 24	Yes	
Appendix B (g) (5) (E)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	PP. 5.11-13, 17, 19	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	PP. 7.1-28 & 29 Table 7.1-1	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 0 Date 9/18/01

Technical Area: **Traffic and Transportation**

Project: Roseville Energy Center

Technical Staff: James Adams

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Eileen Allen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	PP. 7.1-28 & 29 Table 7.1-1	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pg. 5.11-25	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	PP. 7.1-38 through 40 Table 7.1-2	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.		N/A	

Adequacy Issue: Adequate ☒ Inadequate ☒  
 Technical Area: **Visual Resources**  
 Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Project: Roseville Energy Facility  
 Docket: 01-AFC-17

Revision No. 1 Date September 21, 2001  
 Technical Staff: Gary Walker  
 Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	<del>Section 5.13</del>  Sept. 10, 2001 Data Adequacy Responses, Comment VIS-1.	No <u>Yes</u>	<del>Submittal of the information requested below will satisfy this requirement.</del>
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the project, the region that can be seen from the vicinity of the project, and the proposed project site. Include:	<del>Pp. 5.13-5 through 5.13-8, Sections 5.13.1.2 through 5.13.1.4; and Visual Analysis Data Sheets..</del>  Sept. 10, 2001 Data Adequacy Responses, Comment VIS-2.	No <u>Yes</u>	<del>Submittal of the information requested below will satisfy this requirement.</del>
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 of the areas from which the project may be seen, identification of the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(E);	<del>Figure 5.13-1.</del>  Sept. 10, 2001 Data Adequacy Responses, Figure 5.13-1 (revised), Comment VIS-3.	No <u>Yes</u>	<del>Figure 5.13-1 does not show the areas from which the project may be seen. Please revise Figure 5.13-1 to show these areas.</del>
Appendix B (g) (6) (A) (ii)	Elevations of any existing structures on the site; and	Not applicable.	Not applicable.	
Appendix B (g) (6) (A) (iii)	The visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities.	Pp. 5.13-5 through 5.13-8, Sections 5.13.1.2 through 5.13.1.4; and Visual Analysis Data Sheets..	Yes	
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that will be impacted by the proposed project.	Visual Analysis Data Sheets.	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

Technical Area: **Visual Resources**

Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Project: Roseville Energy Facility

Docket: 01-AFC-17

Revision No. 1 Date September 21, 2001

Technical Staff: Gary Walker

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (C)	After discussions with staff and community residents who live in close proximity to the proposed project, identify the scenic corridors and any visually sensitive areas potentially affected by the proposed project, including recreational and residential areas. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. For purposes of this section, a scenic corridor is that area of land with scenic natural beauty, adjacent to and visible from a linear feature, such as a road, or river.	<del>Pp.5.13-11 through 5.13-14, Section 5.13.2.4.</del>  <u>Sept.10, 2001 Data Adequacy Responses, Comment VIS-4.</u>	<del>No.</del> Yes	<del>Please estimate the number of residences along the proposed electric transmission line route.</del>
Appendix B (g) (6) (D)	A description of the dimensions, color, and material of each major visible component of the project.	Pp.5.13-3 and 5.13-4; Table 3.4.1-2.	Yes	
Appendix B (g) (6) (E)	Full-page color photographic reproductions of the existing site, and full-page color simulations of the proposed project in the existing setting from each location representative of the view areas most sensitive to the potential visual impacts of the project.	<del>Figures 5.13-3a through 5.13-7b.</del>  <u>Sept.10, 2001 Data Adequacy Responses, Comment VIS-5.</u>	<del>No.</del> Yes	<del>Please provide Figure 5.13-7c, a full-page color simulation of a typical transmission pole in the existing residential setting.</del>
Appendix B (g) (6) (F)	An assessment of the visual impacts of the project, including light and glare, and visible plumes.	P.5.13-4, Section 5.13; pp.5.13-10 through 5.13-16, Section 5.13.2.4.1.	Yes	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 7.1-1, pp.7.1-38 through 7.1-35; Section 7.5.13, pp.7.5-46 through 7.5-48.	Yes	



Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 1 Date September 21, 2001

Technical Area: **Visual Resources**

Project: Roseville Energy Facility

Technical Staff: Gary Walker

Project Manager: Lance Shaw

Docket: 01-AFC-17

Technical Senior: Dale Edwards

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 7.1-2.	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Pp.7.5-46 through 7.5-48, Section 7.5.13.	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 7.1-2.	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Not applicable.	Not applicable.	

Adequacy Issue: Adequate ☒ Inadequate ☐

## DATA ADEQUACY WORKSHEET

Revision No. 01 Date 9/25/01

Technical Area: **Water Resources**

Project: Roseville Energy Facility

Technical Staff: Richard Sapudar

Project Manager: Lance Shaw

Docket:

Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	1.2, 3.1, 3.5 5.3, 5.4.3, 5.5.1 5.5.1.1.3, 5.5.2, 5.5.3 5.18.1, 5.18.2.1, 5.18.3	YES	
Appendix B (g) (14) (A)	All information required by the Regional Water Quality Control Board in the region where the project will be located to apply for:	_____	_____	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; and	1.2, 3.4.8.5	YES	None identified as required.
Appendix B (g) (14) (A) (ii)	a National Pollutant Discharge Elimination System Permit.	1.2, 3.4.8.5, 7.5.5.1	YES	
Appendix B (g) (14) (B)	A description of the hydrologic setting of the project. The information shall describe, in writing and on maps at a scale of 1:24,000, the chemical and physical characteristics of the following water bodies that may be affected by the proposed project:	1.2, 3.3, 5.5.1.1.2	YES	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	3.3, 3.3.2.1, 5.3	YES	
Appendix B (g) (14) (B) (ii)	Surface water bodies; and	3.3.3.1, 5.5.1.1.2	YES	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones.	Figure 3.3-1 3.3.3.1	YES	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	1.2, 3.1, 3.4.8.1., 5.5.1.1.1	YES	
Appendix B (g) (14) (C) (i)	Source of the water and the rationale for its selection, and if fresh water is to be used for power plant cooling purposes, a discussion of all other potential sources and an explanation why these sources were not feasible;	1.2, 3.1, 3.4.8.1.2, Figure 3.4.8-1, 5.5.1.1.1 Tabale 5.5-6	YES	

Adequacy Issue: Adequate ☒ Inadequate ☐  
 Technical Area: **Water Resources**  
 Project Manager: **Lance Shaw**

## DATA ADEQUACY WORKSHEET

Revision No. 01 Date 9/25/01  
 Technical Staff: Richard Sapudar  
 Technical Senior: Dick Anderson

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (C) (ii)	The physical and chemical characteristics of the source and discharge water;	Table 3.4.8-2, Table 3.4.8-3, Table 3.4.8-5, Table 3.4.8-6 3.4.8.2	YES	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; and	Table 3.4.8-1 Table 5.5-6 5.5.2.1.1	YES	
Appendix B (g) (14) (C) (iv)	A description of all facilities to be used in water conveyance, treatment, and discharge. Include a water mass balance diagram.	3.1, 3.4.8.3, 3.4.8.4, 3.4.15 Appendix Figures B1 and B2	YES	
Appendix B (g) (14) (D)	A description of pre-, and post-construction runoff and drainage patterns, including:	_____	_____	
Appendix B (g) (14) (D) (i)	Precipitation and storm runoff patterns; and	1.2, 3.1, 5.5.1.1.2 Figure 3.3-2	YES	
Appendix B (g) (14) (D) (ii)	Drainage facilities and design criteria.	3.5.7, 5.5.2.2	YES	
Appendix B (g) (14) (E)	An assessment of the effects of the proposed project on water resources. This discussion shall include:	_____	_____	
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source;	3.4.8.1	YES	
Appendix B (g) (14) (E) (ii)	The effects of construction activities and plant operation on water quality; and	3.8.4, 5.5.2.1.2, 5.4.2.1.1	YES	
Appendix B (g) (14) (iii)	The effects of the project on the 100-year flood plain or other water inundation zones.	3.5.8	YES	
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Table 7.1-1 7.5	YES	

Adequacy Issue: Adequate ☒ Inadequate ☐  
 Technical Area: Water Resources  
 Project Manager: Lance Shaw

## DATA ADEQUACY WORKSHEET

Revision No. 01 Date 9/25/01  
 Technical Staff: Richard Sapudar  
 Technical Senior: Dick Anderson

Project: Roseville Energy Facility  
 Docket: \_\_\_\_\_

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	7.3, Table 7.1-1	YES	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	5.5.4, 7.1, 7.3 5.18.4	YES	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 7.1-1	YES	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	<del>None</del> 9/10/01 Supplement Water-1 Attachment 2	YES	<del>Provide the required schedule for all permits.</del>

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 0-1 Date 9/10/01  
10/1/01

Technical Area: **Worker Safety**

Project: Roseville Energy Facility

Technical Staff: Rick Tyler

Project Manager: L. Shawl

Docket: 01-AFC-14

Technical Senior: Rick Tyler

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 5.17	Yes	
Appendix B (g) (11) (A)	A description of the safety training programs which will be required for construction and operation personnel.	Section 5.17.2.1.2	Yes	
Appendix B (g) (11) (B)	A complete description of the fuel handling system and the fire suppression system.	<u>Section 3.4</u>	<del>No</del> Yes	<del>A description of fuel handling systems on facilities utilizing natural gas.</del>
Appendix B (g) (11) (C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows:	Section 5.17	Yes	
	Construction Health and Safety Program:		Yes	
	* Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509);		Yes	
	* Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920);		Yes	
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)		Yes	
	Operation Health and Safety Program:		Yes	
	* Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203);		Yes	
	* Fire Prevention Plan (8 Cal. Code Regs., § 3221);		Yes	
	* Emergency Action Plan (8 Cal. Code Regs., § 3220);		Yes	
	* Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).		Yes	

Adequacy Issue: Adequate ☒ Inadequate ☒

## DATA ADEQUACY WORKSHEET

Revision No. 0-1 Date 9/10/01  
10/1/01

Technical Area: **Worker Safety**

Project: Roseville Energy Facility

Technical Staff: Rick Tyler

Project Manager: L. Shawl

Docket: 01-AFC-14

Technical Senior: Rick Tyler

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (h) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed;	Section 5.17.4	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Section 5.17.4	Yes	
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).	Section 5.17	Yes	
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Section 5.17.4	Yes	
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 5.17.4	Yes	

Adequacy Issue: Adequate ☒ Inadequate ☐

## DATA ADEQUACY WORKSHEET

Revision No. 04  
03 Date ~~8-23-2001~~ 10-10-2001

Technical Area: Transmission System Eng.

Project: Roseville Energy Facility

Technical Staff: Laiping Ng

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2) (A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 3.1-1, P 3.1-2  Section 3.6, P 3.6-1 to 3.6-3	Yes	
Appendix B (i) (2) (B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 3.4.6.1 – Section 3.4.6.4, P 3.4-12  Section 3.6.3 P 3.6-2	N.A.	

Technical Area: Transmission System Eng.  
Project Manager: Lance Shaw

Project: Roseville Energy Facility  
Docket: 01-AFC-14

Technical Staff:	Laiping Ng
Technical Senior:	Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights of way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators. This description shall include power load flow diagrams which demonstrate conformance or nonconformance with utility reliability and planning criteria at the time the facility is expected to be placed in operation and five years thereafter; and	<p>Section 3.6, P 3.6-1 – 3.6-3</p> <p>Section 3.8.2, P 3.8-18 – 3.8-19</p> <p>Appendix F</p> <p><u>Response to The Transmission System Engineering Data Request</u></p> <p><u>Power Flow Diagrams submitted on Oct. 1, 2001</u></p>	<p><del>No</del><u>Yes</u></p> <p><u>yes</u></p> <p><u>yes</u></p> <p><u>yes</u></p>	<p>Please provide a System Impact Study Report for project. Analyze the system impact with and without the project during peak and off-peak system conditions, which will demonstrate conformance or non-conformance with the utility reliability and planning criteria with the following provisions:</p> <p>a. Identify major assumptions in the base cases including imports to the system, major generation and load changes in the system and queue generation. Three Mountain PP and CC SECAL projects are listed as Level 3 in the basecase assumption. However, these two projects had been approved by the Commission.</p> <p>b. Analyze system for N-0, important N-1 and critical N-2 contingency conditions and provide a list for criteria violations in a table showing the loadings before and after adding the new generation.</p> <p>c. b. Short circuit studies (Optional Data requests will follow).</p> <p>d. c. Analyze system for Transient Stability and Post-transient voltage conditions under critical N-1 and N-2 contingencies, and provide related plots, switching data and a list for voltage violations in the studies (Optional Data requests will follow).</p> <p>e. Identify the reliability and planning criteria utilized to determine the criteria violation.</p> <p>f. Provide a list of contingencies evaluated for each study.</p> <p>g. d. List mitigation measures considered (required) and those selected (optional Data Requests will follow) for all criteria violations. For the untitled table documenting results for the Roseville Energy Facility under n-0 conditions for case 1 identify the mitigation measures (including but not limited to RAS, rerating, reconductoring, reconstruction, and new lines) that are being considered to mitigate criteria violations. Generally discuss the relative merit of all mitigation measures selected for consideration. Provide a schedule identifying when such mitigation measures will be at least preliminary selected. Revise the milestone table on page 1 of the Response to the Transmission System Engineering Data Request.</p> <p>h. e. Provide electronic copies of *.sav and *.dwn PSLE files (optional Data Requests will follow).</p> <p>Provide power flow diagrams (MW, % loading &amp; P. U. voltage) for base cases with and without the project. Power flow diagrams must also be provided for all N-0, N-1 and N-2 studies where overloads or voltage violations appear.</p>



Adequacy Issue: Adequate ☒ Inadequate ☐

## DATA ADEQUACY WORKSHEET

Revision No. 04 03 Date ~~8-23-2001~~ 10-10-2001

Technical Area: Transmission System Eng.

Project: Roseville Energy Facility

Technical Staff: Laiping Ng

Project Manager: Lance Shaw

Docket: 01-AFC-14

Technical Senior: Al McCuen

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints.	Sections 3.11.6, P 3.11-12 Section 3.6.2.2, P 3.6-1, Map 3.2-1	Yes	
Appendix B (g) (18) (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Section 1.2.6 P 1-5 Section 3.6, P 3.6-1 to 3.6-3	Yes	
Appendix B (h) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.			
Appendix B (h) (2)	A discussion of the conformity of the project with the requirements listed in subsection (h)(1)(A).			
Appendix B (h) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.			
Appendix B (h) (4)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.			